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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,440	01/11/2002	Kevin W. Haulk	10110.00	8408
26884	7590 11/07/2005		EXAMINER	
PAUL W. MARTIN NCR CORPORATION, LAW DEPT.			DU, THUAN N	
1700 S. PATTERSON BLVD.			ART UNIT	PAPER NUMBER
DAYTON, OH 45479-0001			2116	

DATE MAILED: 11/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	A It At At a	A			
•	Application No.	Applicant(s)			
Office Action Summary	10/044,440	HAULK ET AL.			
Onice Action Summary	Examiner	Art Unit			
	Thuan N. Du	2116			
The MAILING DATE of this communication app Period for Reply	pears on the cover sneet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	iely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 24 A	ugust 2005.				
	s action is non-final.	·			
3) Since this application is in condition for allowa	, _				
Disposition of Claims					
4) Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed, 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	er.				
0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	,				
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicationity documents have been received u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attacherounta					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

DETAILED ACTION

- 1. Claims 1-19 are presented for examination.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Objections

3. Claim 9 is objected to because of the following informalities: "step (c)" in line 1 should be -- step (d) -- because the ceasing step should be occurred after the power is removed.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admission of prior art [AAPA], Sugahara et al. [Sugahara] (U.S. Patent No. 6,408,395) and Shohara et al. [Shohara] (U.S. Patent No. 6,473,607).
- 5. Regarding claims 1 and 8, AAPA teaches a plurality of electronic shelf labels (ESL) coupled to a network and controlled by a central server [application's specification, p. 1, lines 12-16]. Each of the ESL comprising a receiver for receiving messages and a battery for powering the receiver [application's specification, p. 1, lines 17-19]. AAPA does not teach that the battery power is removed from the receiver of the ESL when the ESL is not scheduled to receive messages.

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Sugahara teaches a method of reducing power consumption by an electronic device (computing device) comprising the steps of:

determining a time period when the electronic device is not used [col. 4, lines 55-58; col. 6, lines 20-23; col. 8, lines 15-18];

transmitting at least one message to the electronic device instructing the device to enter a reduced power consumption mode by removing power from at least a portion of the receiver during the time period [col. 4, lines 36-39, 45-48, 55-58; col. 8, lines 52-58];

removing power from the portion of the receiver by the electronic device at the beginning of the time period to enter the reduced power consumption mode [col. 5, lines 60-63; col. 9, lines 41-45].

supplying power to the electronic device at the end of the time period to resume normal operation [col. 8, lines 15-16].

Both AAPA and Sugahara do not explicitly teach the time period is stored in a memory of the electronic device.

Shohara teaches a system comprising a battery-powered electronic device [col. 20, lines 24-25], wherein the electronic device wirelessly receives power control messages [col. 11, lines 14-16] including scheduled time for power saving mode, and stores the schedule in a memory [col. 11, lines 27-33; col. 14, line 48 to col. 15, line 16; col. 20, lines 41-47].

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of AAPA-Sugahara and Shohara because the both directed to electronic device power saving. Shohara's teachings of storing the received schedule and

powering the device ON and OFF based on the schedule would reduce the number of messages transmitted to the device.

- 6. Regarding claims 2-4, Shohara teaches that the message includes start and end time and a duration (schedule) for the reduced power consumption mode [col. 20, lines 41-47].
- 7. Regarding claim 5, AAPA teaches that the message is transmitted to plurality of ESLs [application's specification, p. 1, lines 15-16].
- 8. Regarding claims 6 and 7, AAPA teaches that that ESL is disposed in a retail establishment [application's specification, p. 1, lines 10-12] and the time period corresponds generally to when the retail establishment is closed or open [application's specification, p. 2, lines 6-9].
- 9. Regarding claim 9, it would have been obvious to one of ordinary skill in the art to recognize that the electronic device ceases to monitor for received messages during an off state.
- 10. Regarding claim 10, it would have been obvious to one of ordinary skill in the art to recognize that the electronic device can be wakening up by depressing a button.
- 11. Regarding claims 11-19, AAPA, Sugahara and Shohara teach the claimed method steps. Therefore, AAPA, Sugahara and Shohara teach the apparatus to implement the claimed method steps.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan N. Du whose telephone number is (571) 272-3673. The examiner can normally be reached on Monday-Friday: 9:30 AM - 6:00 PM, EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (571) 272-3670.

Central TC telephone number is (571) 272-2100.

The fax number for the organization is (571) 273-8300.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

TD

November 3, 2005

THUAN N. DU PRIMARY EXAMINER